

FEB 28 2005
PATENT & TRADEMARK OFFICE
SEARCHED INDEXED
SERIAL NO. 10/795,895

FIG.1

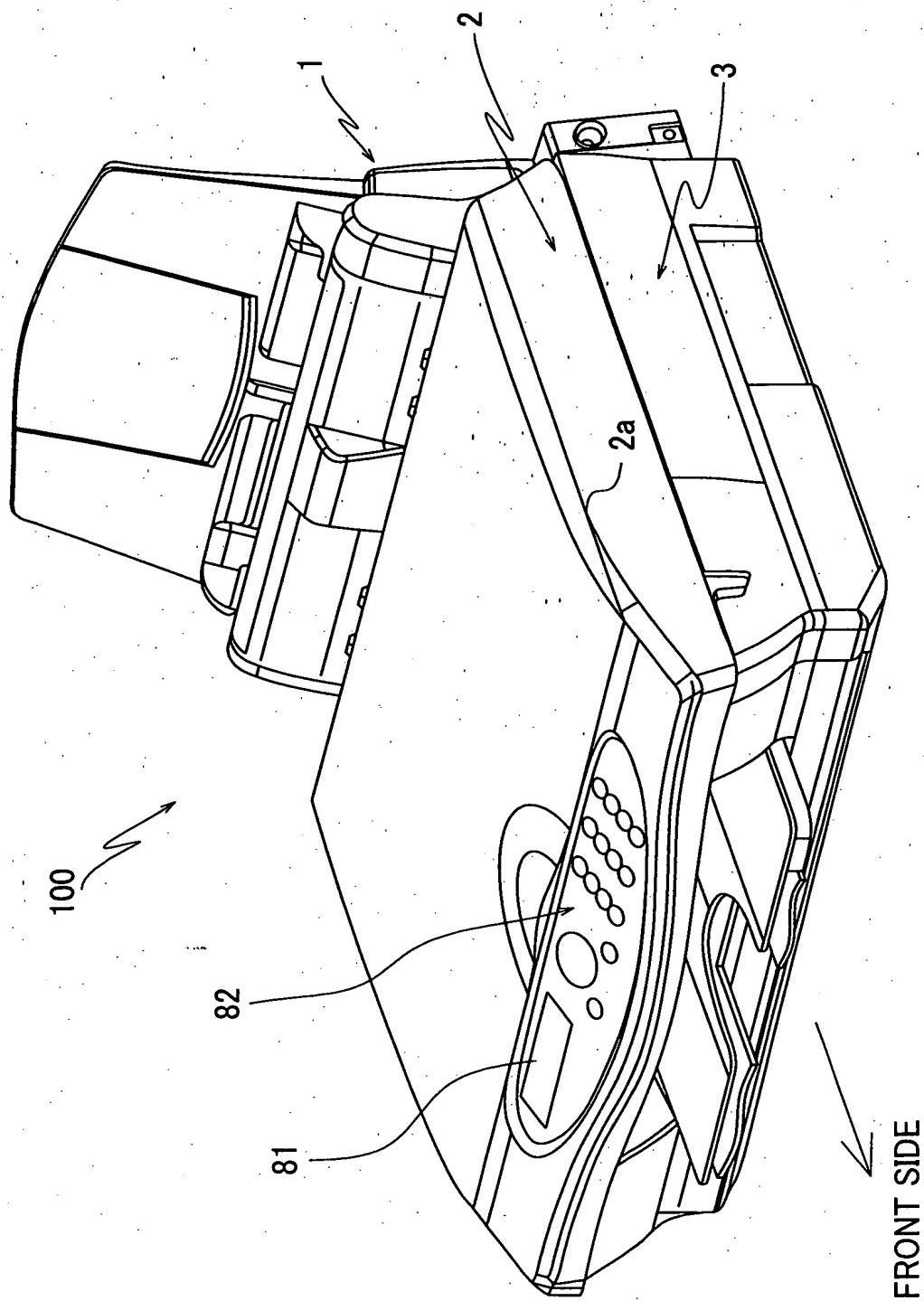


FIG.2

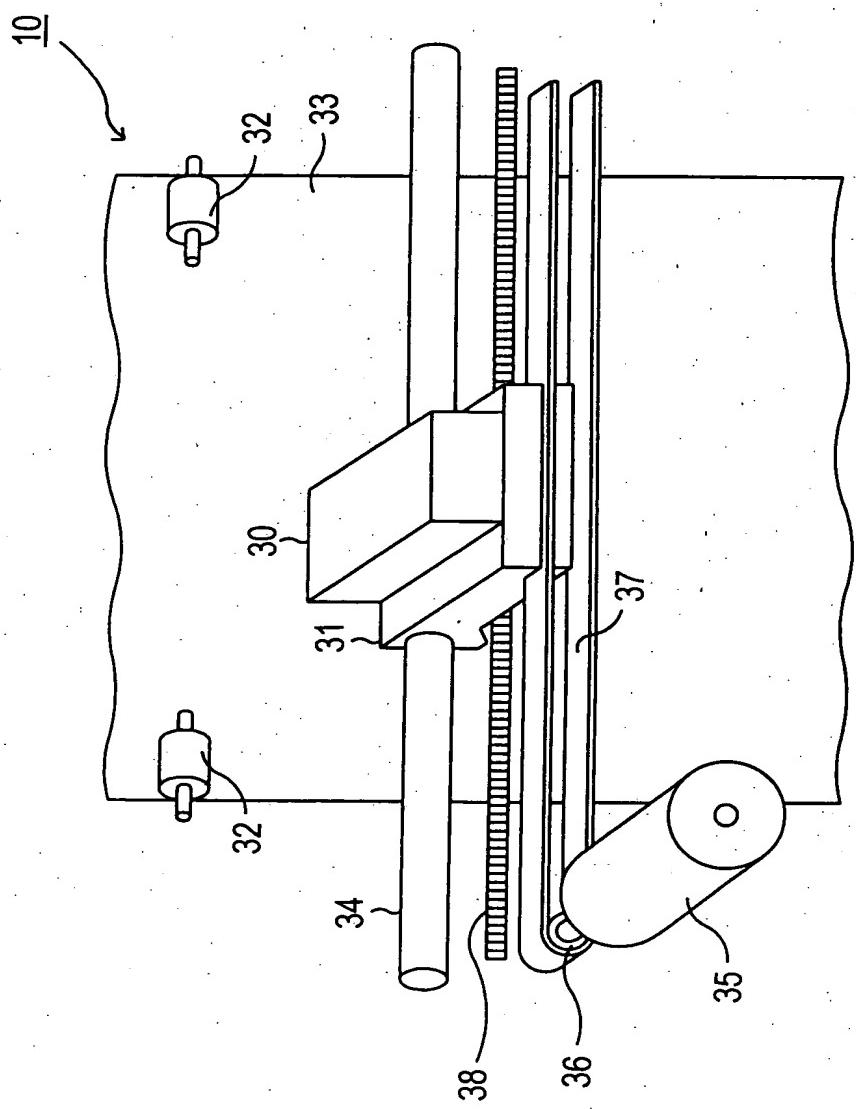
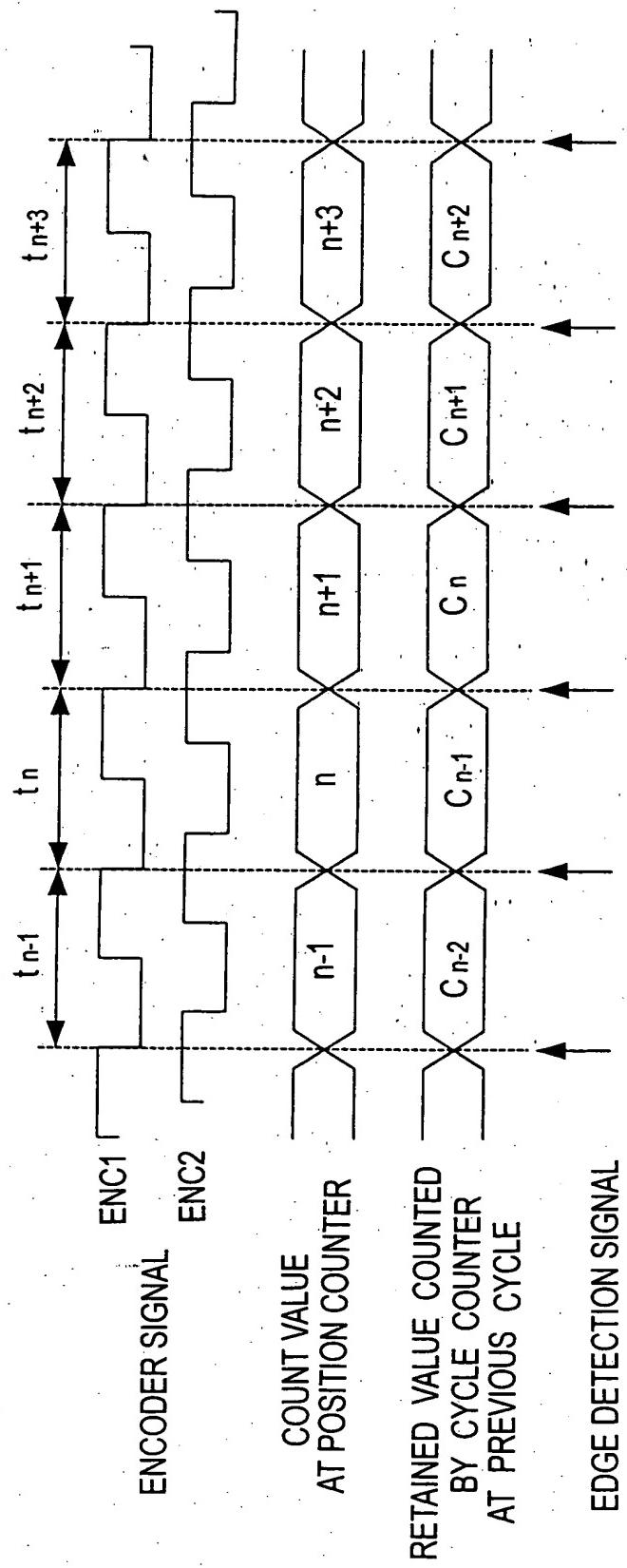


FIG. 3



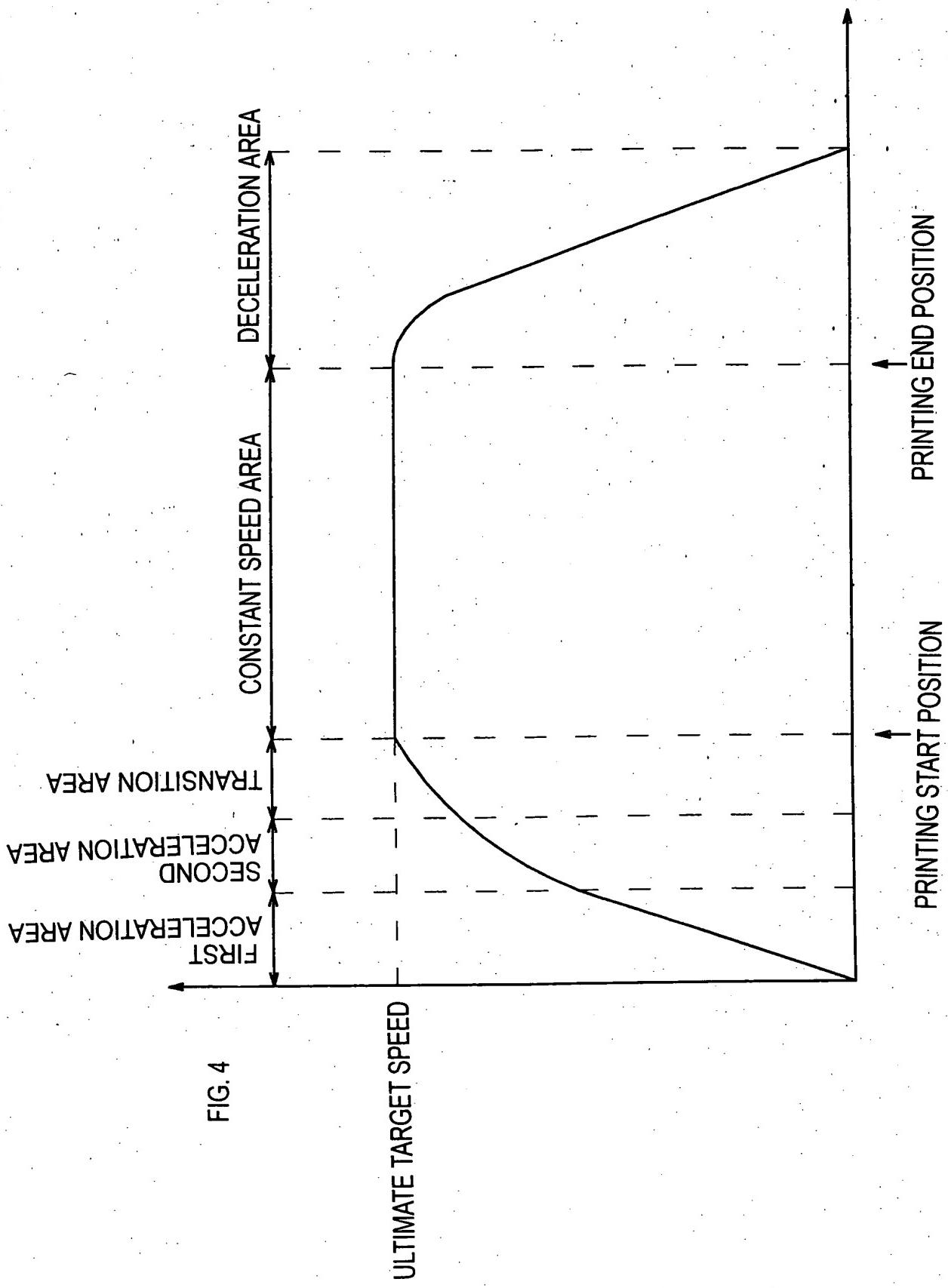


FIG. 4

FIG. 5

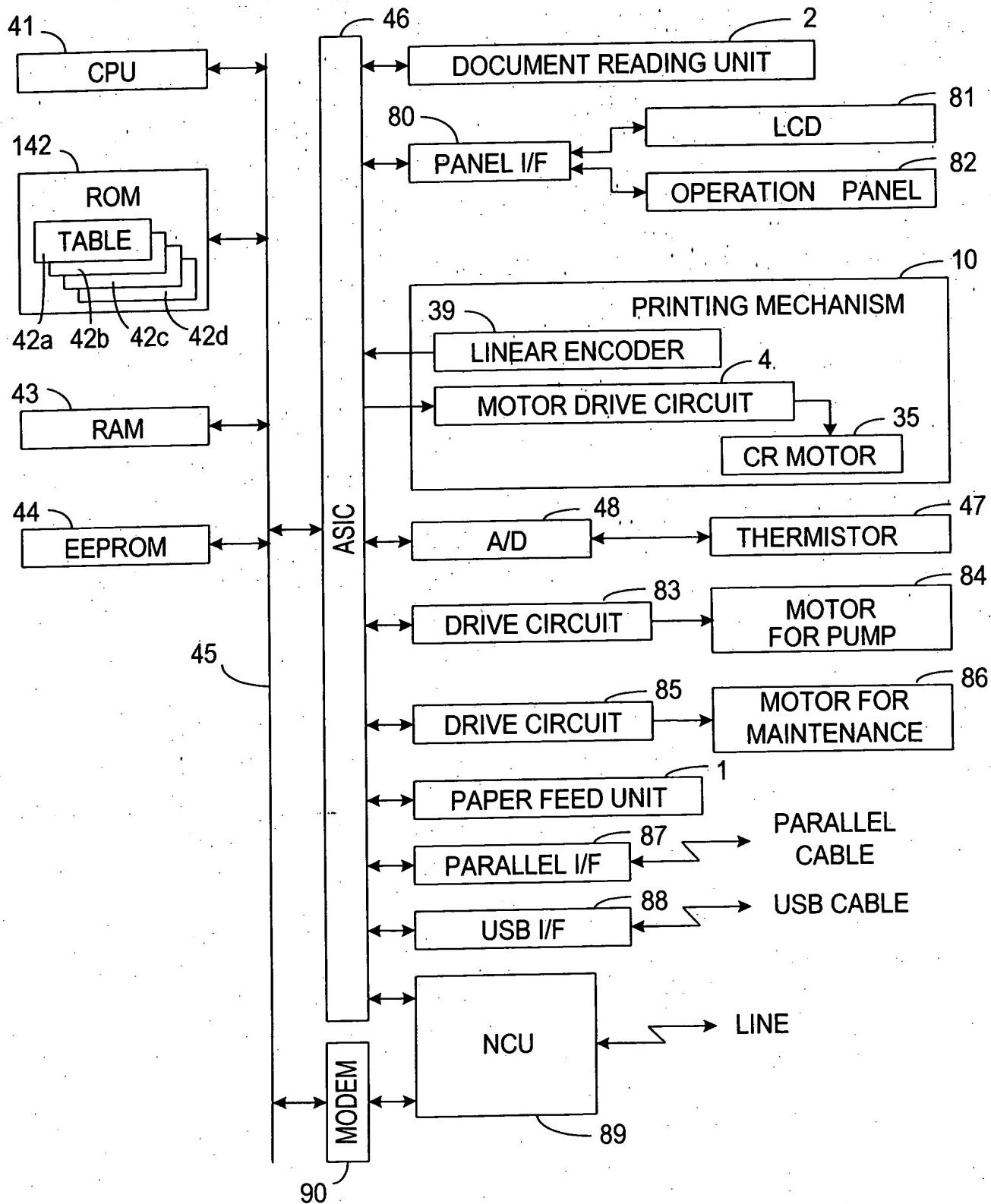


FIG. 6

39

46

LINEAR ENCODER

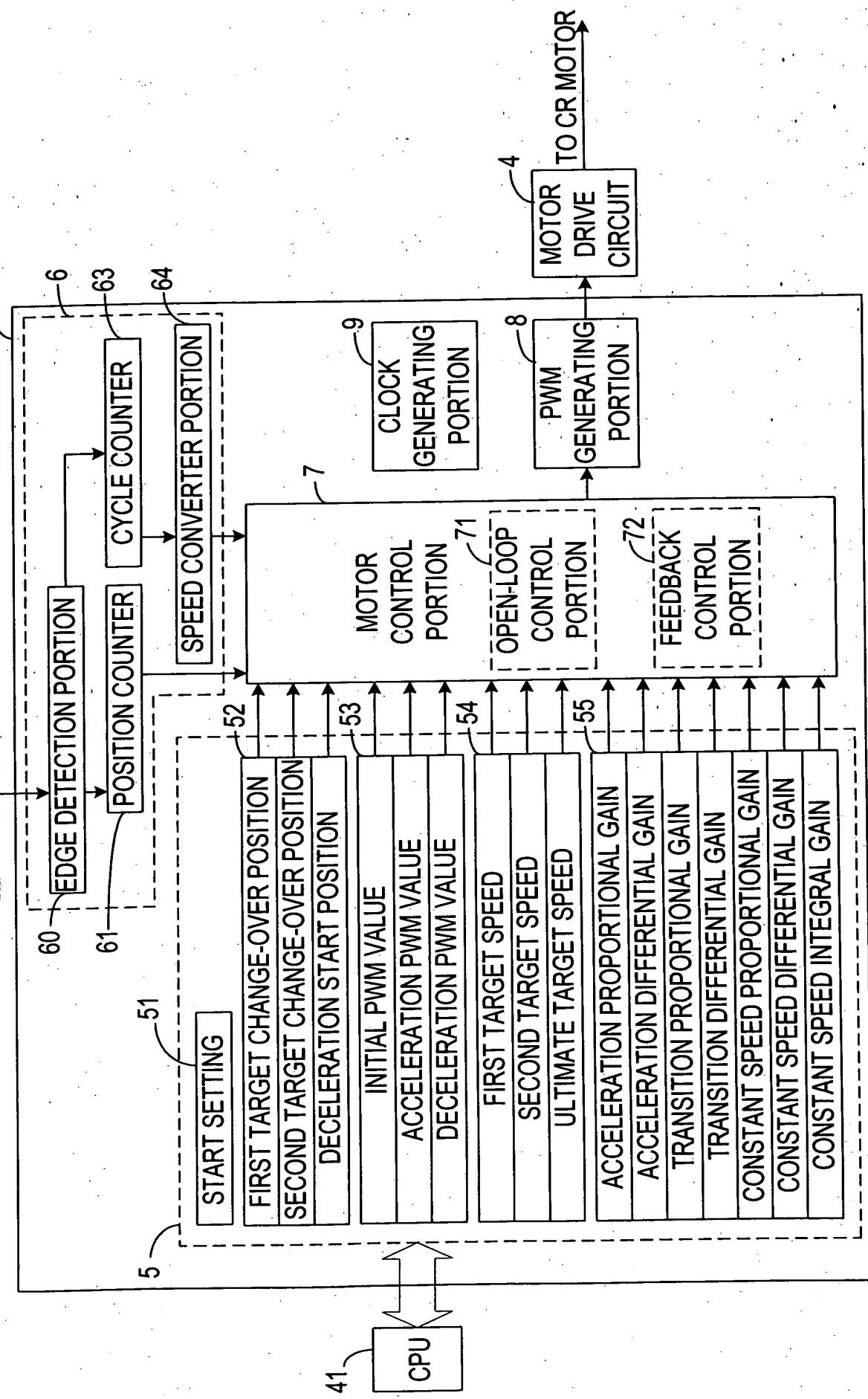
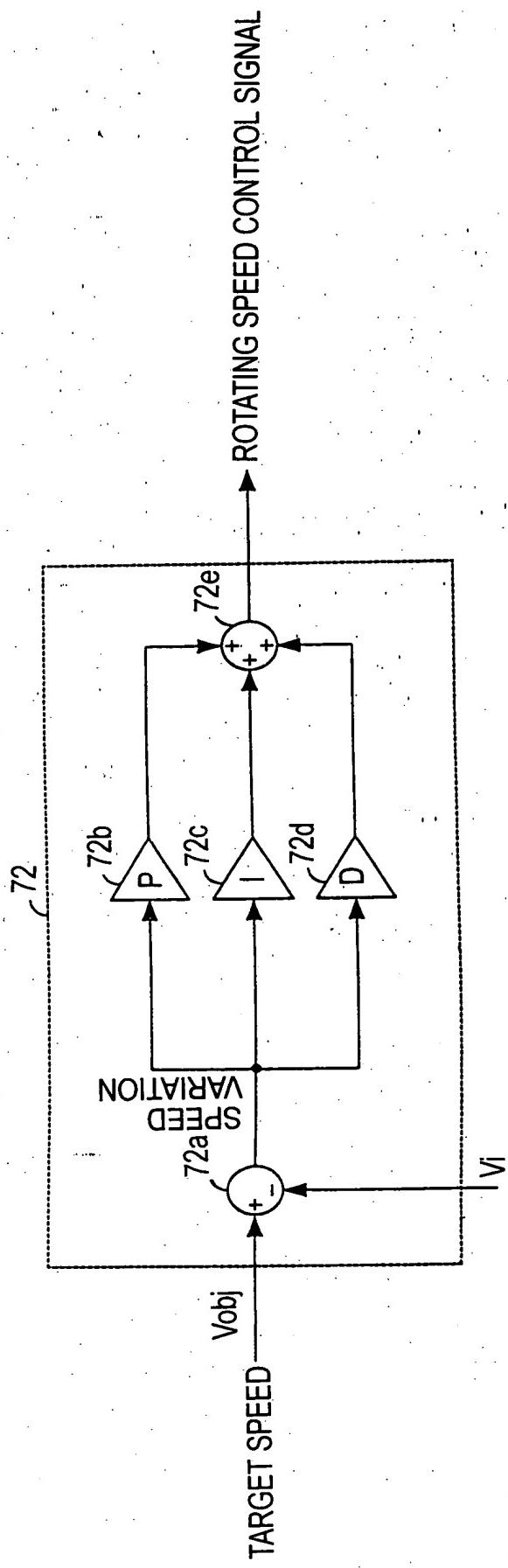


FIG. 7



FROM SPEED CONVERTER PORTION 64

FIG. 8

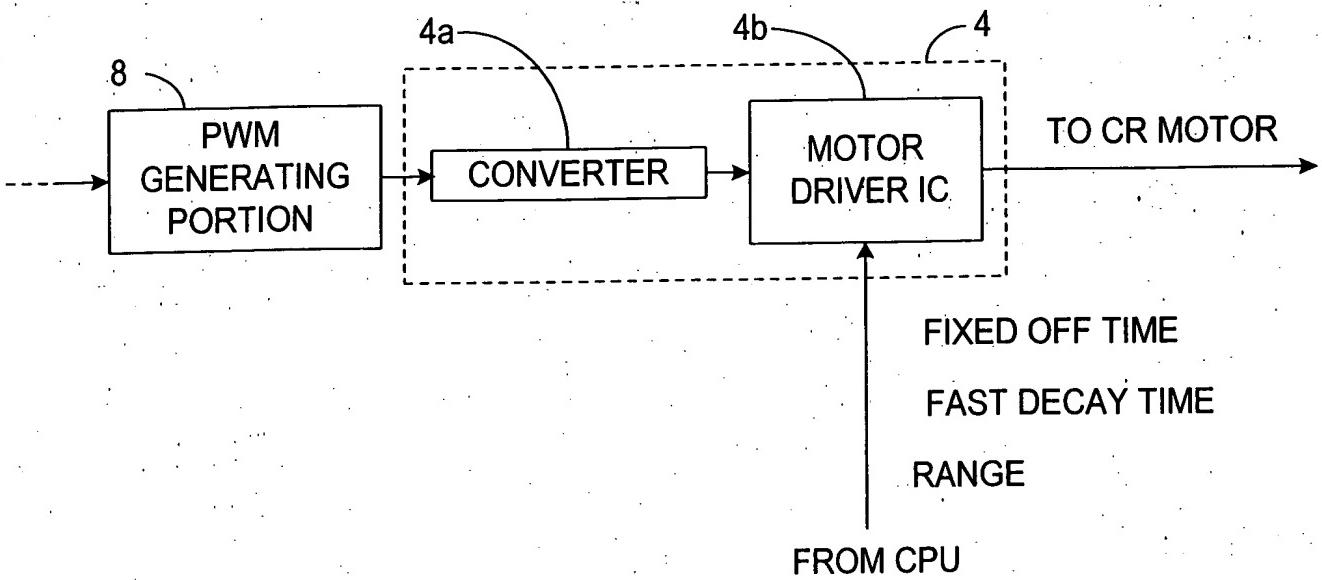


FIG. 9

MODE	30i ps	30i ps	15i ps	15i ps	7.5i ps
DIRECTION	FWD	REV	FWD	REV	FWD
INITIAL PWM VALUE					
ACCELERATION PROPORTIONAL GAIN					
ACCELERATION DIFFERENTIAL GAIN					
TRANSITION PROPORTIONAL GAIN					
TRANSITION DIFFERENTIAL GAIN					
CONSTANT SPEED PROPORTIONAL GAIN					
CONSTANT SPEED DIFFERENTIAL GAIN					
CONSTANT SPEED INTEGRAL GAIN					
FIXED OFF TIME					
FAST DECAY TIME					
RANGE					

FIG. 10

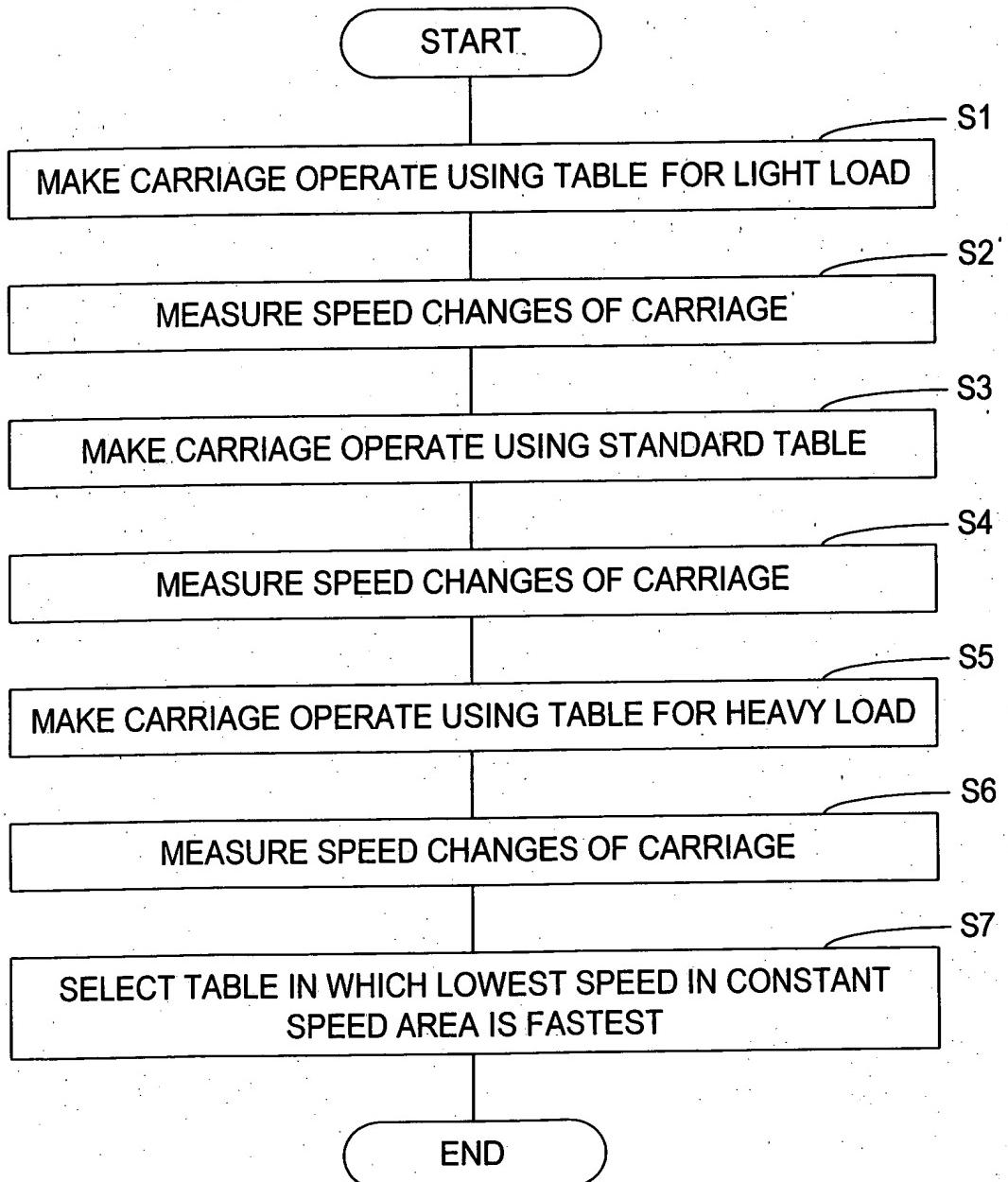


FIG. 11

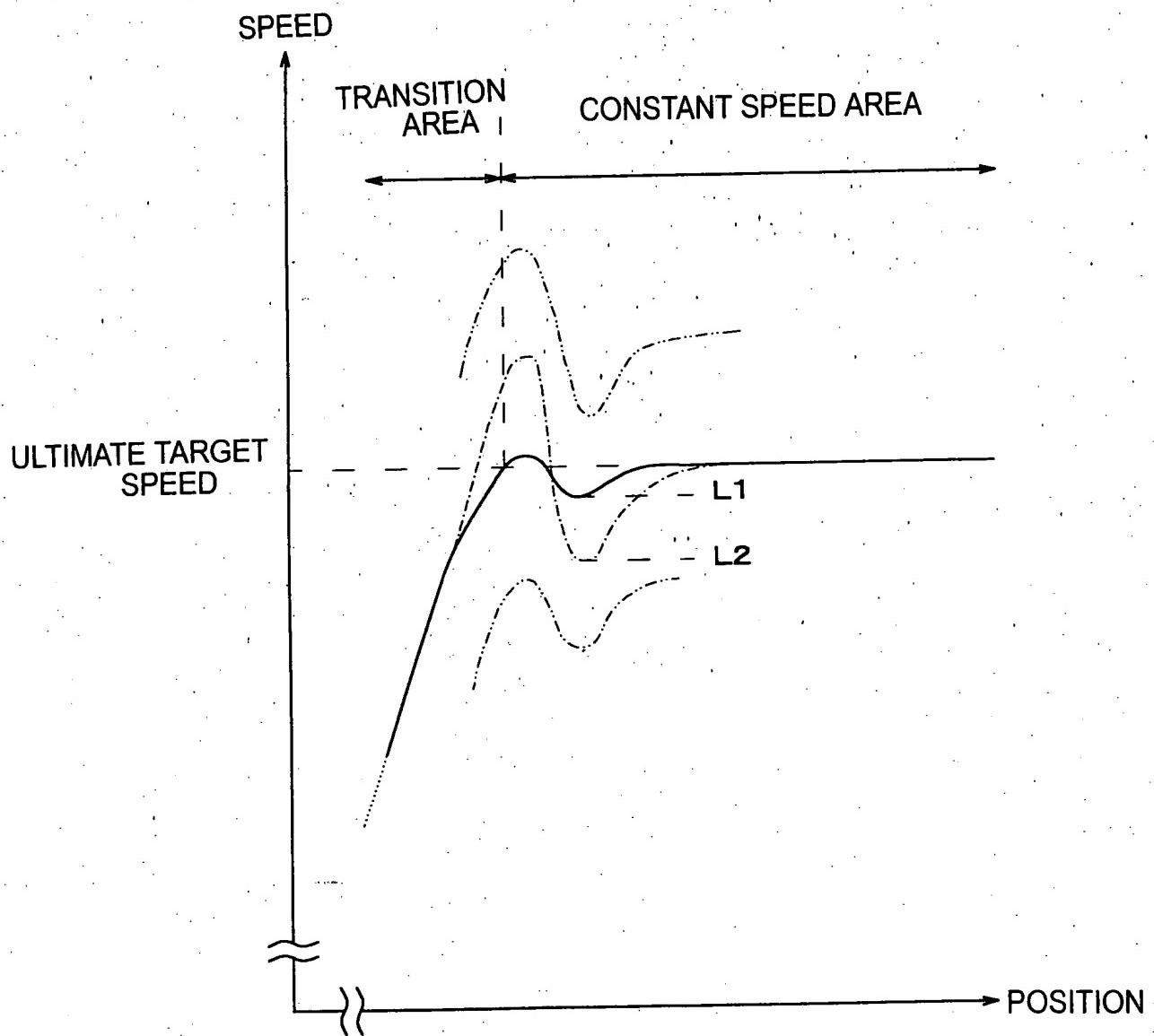


FIG. 12

